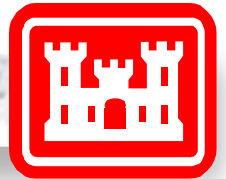


U.S. Army Corps of Engineers (USACE)



USACE Overview



**LTG Thomas Bostick
Commander
Headquarters, USACE**

Briefing Agenda

- **US Army Corps of Engineers (USACE)**
 - **USACE's Value to the Nation**
 - **USACE Chief of Engineers - Multiple Roles**
 - **USACE Mission and Focus Areas**
 - **USACE Campaign Goals and Objectives**
 - **Who we Are, What we do, Where we do it**
 - **USACE Organization Structure Programs,**
 - **USACE Program and Employment Work Force, and Trends**
 - **Program Areas**
 - ❖ **Military Programs**
 - ❖ **Civil Works Programs**
 - ❖ **Army Geospatial Center**
 - ❖ **Engineer Research and Development Center**

USACE Vision

Engineering solutions for our Nation's toughest challenges.

USACE Mission

Deliver vital public and military engineering services; partnering in peace and war to strengthen our Nation's security, energize the economy and reduce risks from disasters.

USACE's Value to the Nation

USACE provides value for the Nation in many ways to diverse stakeholders.

- We deliver positive impacts for today and tomorrow - in construction, natural resource management, energy and sustainability and capacity building, and more.
- We have the “right” people: world-class professionals, civilians, and soldiers alike.
- We are U.S. Army “*ambassadors*” on a daily basis to political leaders, America’s small businesses, and to citizens wherever we serve them.

Employee Value Proposition



**US Army Corps
of Engineers®**

The US Army Corps of Engineers is **BUILDING STRONG®** by providing innovative engineering solutions to the Nation, challenging and rewarding careers, and professional growth opportunities in a family-friendly environment.

YOU MATTER:

- ***We offer challenging and diverse missions allowing you to serve the Nation and the world. You do great things every day that make a difference in people's lives.***
 - Provide national security and emergency response
 - Support the Armed Forces
 - Develop technology and systems that save the lives of Soldiers and civilians
 - Provide flood risk management and navigable waterways
 - Protect the environment
 - Manage and create recreational opportunities

WE PROMISE:

- ***A team-inspiring and collaborative work environment providing challenging and rewarding careers for many specialties.***
 - Gain extraordinary experiences
 - Create a foundation for success
 - Develop professionally and personally
 - Explore new horizons
 - Build lasting relationships
 - Enjoy a balance between professional and personal life

USACE Campaign Plan Goals



➤ *Support the Warfighter*

➤ *Transform Civil Works*



➤ *Reduce Disaster Risks*



➤ *Prepare for Tomorrow*



Multiple Roles



**Chief of Engineers
ARSTAF**



**ARSTAF Staff
Principal**

**Direct Reporting
Unit Commander
(GO#3 & AR 10-87)**

**Capability Area Manager
Operational Engineering
(DODD 7045.23)**

**Commander
USACE**



**Regimental Advisor -
Senior Mentor**

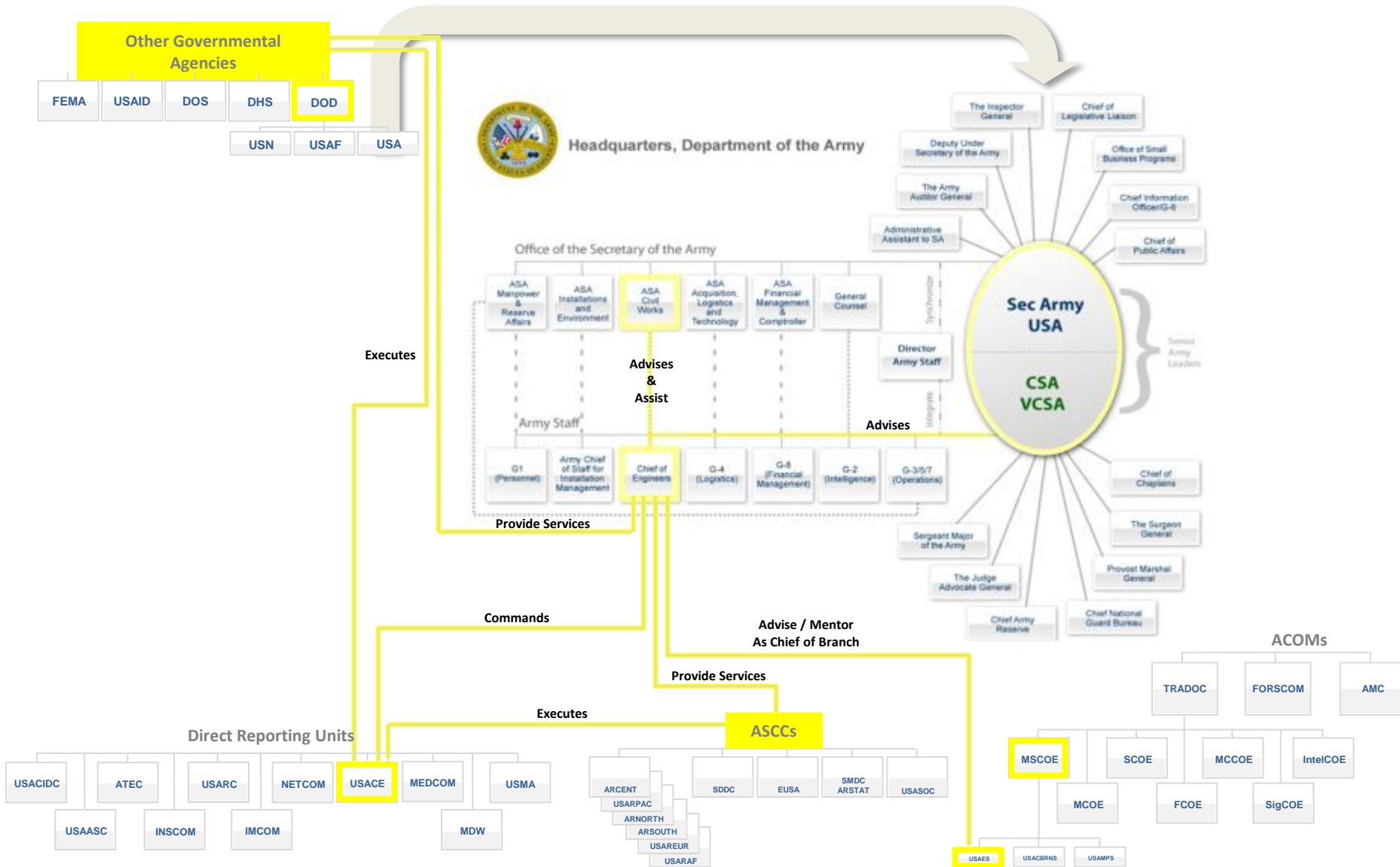
**Geospatial Governance
Board Co-Chair (GGB Charter
s/VSCA 1 May 2011)**

**Joint Operations Engineer
Board Co-Chair (JROCM 05 /
DODD 7045.23)**

**Chief of Branch
Engineer**



Multiple Roles



USACE Mission Areas

BUILDING STRONG – USACE Supports the Army and the Nation

Military Programs

- Military Construction
- COCOM Support ,Overseas Contingency Operations (OCO)
- Installation Support, Environmental, Energy and Sustainability



Real Estate



- Acquire, Manage and Dispose
- DoD Recruiting Facilities
- Contingency Operations

Geospatial Support

- Support to Civil Works Programs
- Support to Military Programs

Civil Works



- Navigation, Hydropower
- Flood Control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster Response
- Environmental Restoration

Research & Development

- Warfighter
- Installations & Energy
- Environment
- Water Resources



Homeland Security



- Critical Infrastructure
- Anti Terrorism Plans
- Intelligence
- Facility Security Partnership

Interagency Support

- Federal
- State
- Local
- International



USACE Has a Diverse Mission Set Driven by Diverse Customers

USACE Authorities - (Not an All Inclusive List)

Military Programs/Real Estate/Interagency Support/Environmental

- Title 10, 15, 22, 30, 31, 33 and 40 of United States Code Authority
- FY04 Section 2808, National Defense Authorization Act (NDAA) (as amended and extended in subsequent NDAA): **Contingency Construction Authority**
- **Afghanistan Security Forces Fund**- annual and supplemental appropriations acts, e.g. Consolidated Appropriations Act, 2008, Division L
- **Iraq Security Forces Fund**- annual and supplemental appropriations acts, e.g. Consolidated Appropriations Act, 2008, Division L
- Comprehensive Environmental Response, Compensation, and Liability Act (**CERCLA**) and amendments
- Oil Pollution Act
- 1942 Presidential Directives **Power Procurement Officer**
- **DA General Order 3**
- **AR 10-87 DA Manager of Commercial Utilities Program (CUP)**
- AR 420-1: Army Facilities Management
- AR 50-7 Army Reactor Program
- AR 200-1 Environmental Protection and Enhancement
- AR 405 – Real Estate
- AR 420-41, Facilities Engineering – Acquisition and Sales of Utilities Services, 15 Sep 1990, **provides responsibilities, policy, and guidance on the acquisition and sale of utilities services.**
- DFARS 241, Acquisition of Utility Services, identifies Chief Engineers as the Service Power Procurement Officer for the Army.
- AFARS 5141 (Revision #25): Chief of Engineers is the DA Power Procurement Officer
- DoDDI Construction Agent
- DoD Executive Agent for Real Estate
- DA Authority for Military Construction
- DoD Manager for the Homeowners Assistance Program

Civil Works

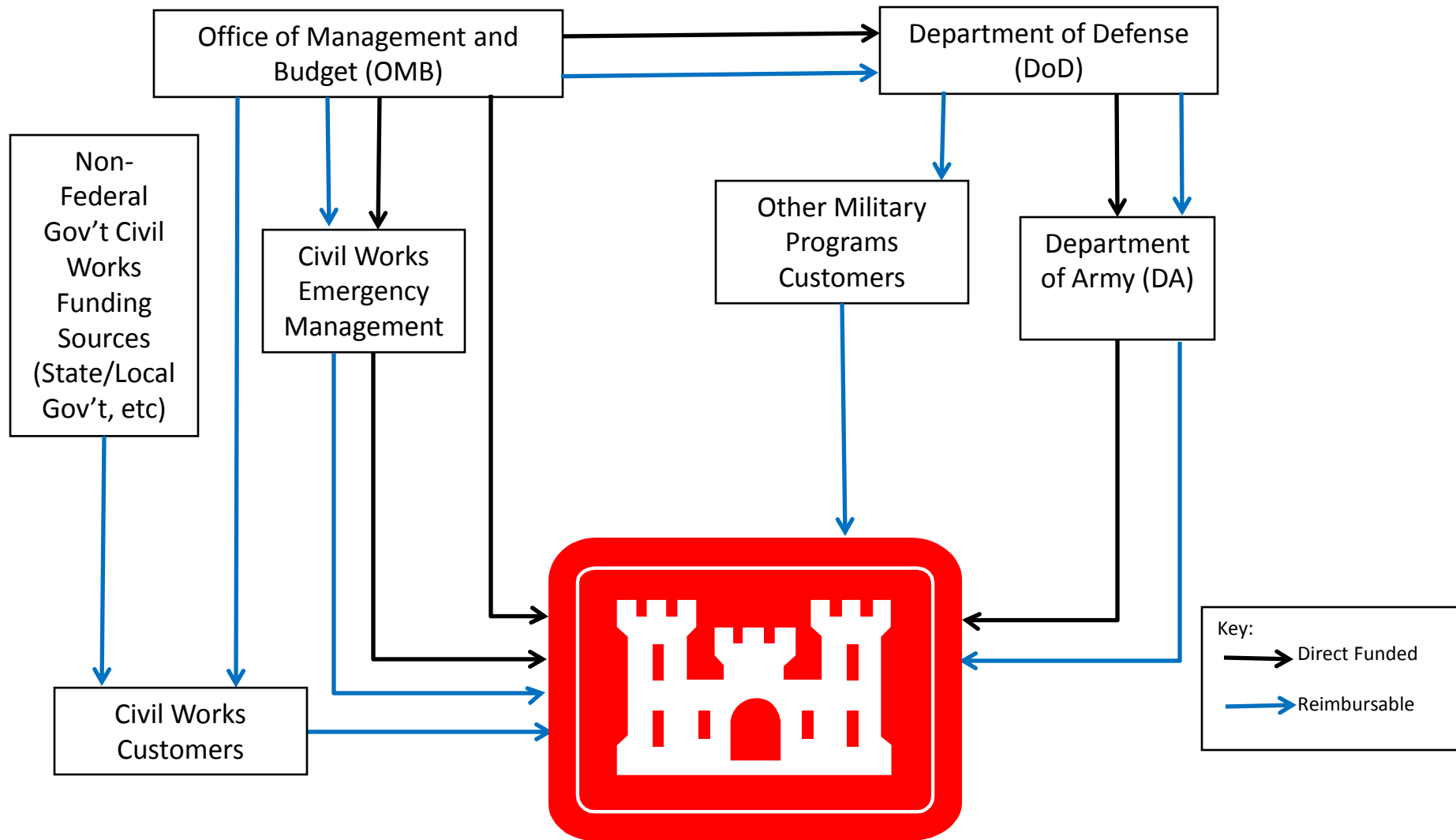
- **1824:** Rivers & Harbors Act authorized Corps work in clearing obstacles on Ohio, Mississippi Rivers and at ports. Subsequent R&H Acts authorize USACE improvement of other US navigable waters
- **1899:** Sec. 10, Rivers & Harbors Act gives Corps regulatory authority over construction in navigable waterways
- **1928:** Mississippi River & Tributaries Flood Control project
- **1936:** Flood Control Act (and subsequent F.C. Acts) - nationwide Corps flood protection mission
- **1938:** Flood Control Act authorizes construction of hydropower plants
- **1944:** Flood Control Act authorizes recreation areas at projects; large reservoirs on Missouri River
- **1955:** P.L. 84-99, (Flood Control & Coastal Emergency Act of 1955) Corps mission in flood fighting, repair of damaged flood control works, etc.
- **1946:** Shore Protection Cost Sharing Act
- **1970:** National Environmental Policy Act requires environmental analysis of all proposed Corps activities
- **1970:** Office of Assistant SecArmy (Civil Works) established in law; first filled in 1975
- **1972:** Clean Water Act gives USACE regulatory authority over dredging and fill operations in all “waters of the U.S.” including many wetlands
- **1986:** Water Resources Development Act requires cost sharing for most projects; Sec. 1135 authorizes existing projects to be modified for environmental improvement
- **1990:** Water Resources Development Act establishes environmental preservation/restoration as project purpose on par with navigation and flood risk management
- **2007:** Water Resources Development Act calls for equal consideration of economic, environmental and social benefits in planning Civil Works projects

All Hazard Contingency Operations

- Stafford Act PL 93-288 (National Response Framework)
- Overseas Contingency Operations
- Field Force Engineering Support to Combatant Commands (COCOM)

USACE Has Numerous Authorities Based in Statute, Regulation and Policy

USACE Funding Flow



USACE Funding Comes from Multiple Sources

USACE Organization and Manpower

USACE Organization



HQUSACE

Engineer
Commands
(2 ENCOMs)

O6 ★ ★ ★

Divisions (9)

SES

Engineer
R&D
Center

O6/15

Centers (2)
(HNC, AGC)
Field Operating
Activities (FOA) (5)

O5

249 EN BN
(Prime
Power)

O5/O6

Districts (44) – US (39)/Outside of US (5)

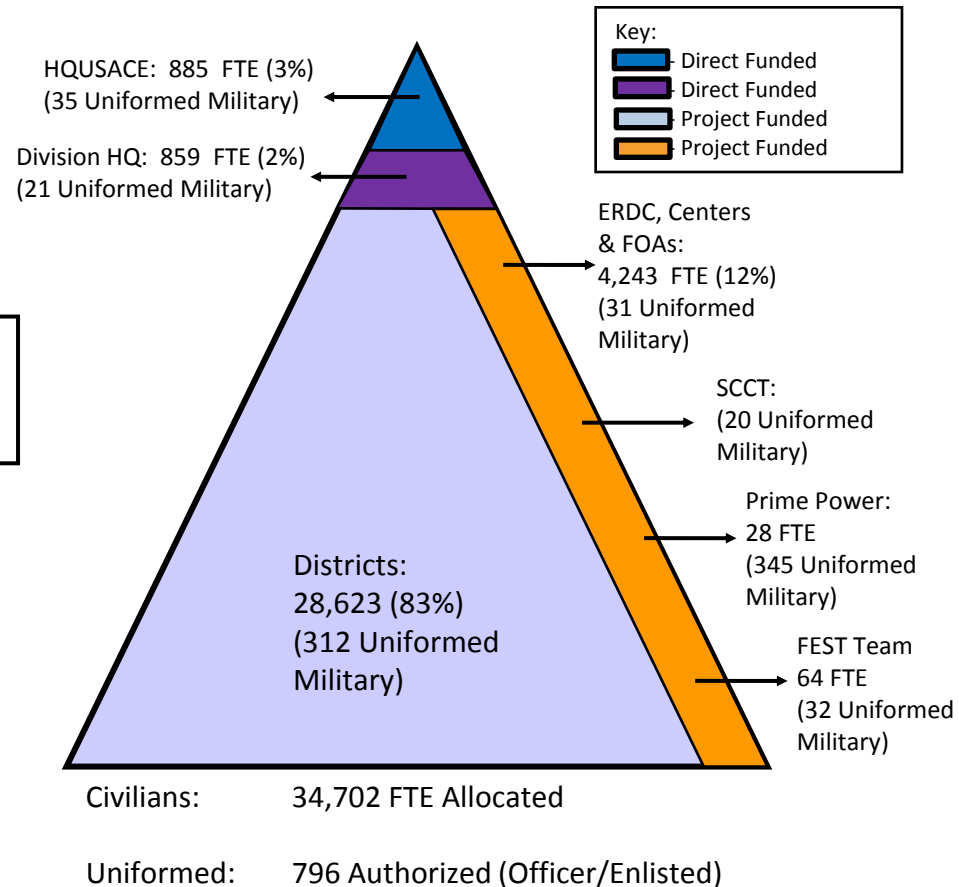
Centers
of
Expertise

Centers
of
Standardization

Area
Resident
Project Offices

Material
Test Labs

Distribution of Civilian Full Time Equivalents (FTE) & Uniformed End Strength (ES)

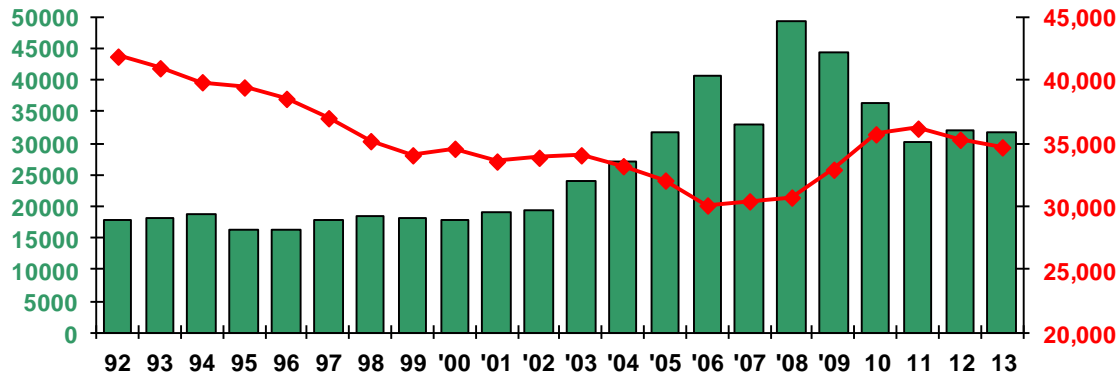


Workforce Size Driven by Customer Programs – 95% FTE Project Funded

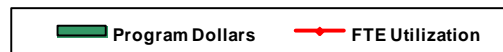
Program & Employment Trends FY92-13

Program (Budget Authority) *
(\$ Millions) **

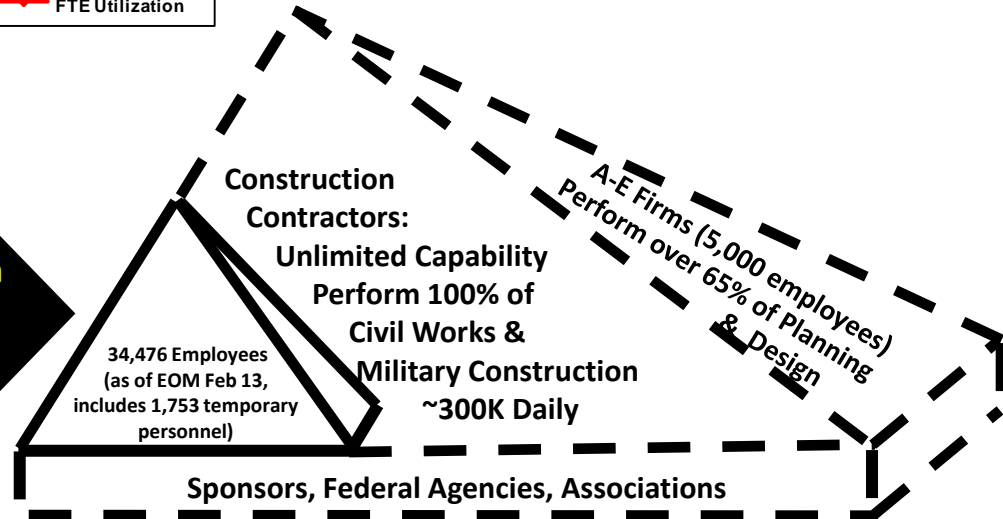
USACE FTEs ***



- Includes Military, Civil, and International and Interagency Support
- ** FY13 Constant Dollars
- *** FTE Utilization



Leverage Personnel Resources through partnering/contracting with Private Sector

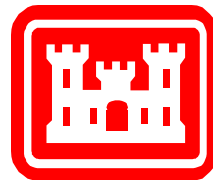


USACE Maintains a Balance Between In-sourced and Outsourced Work

Military Programs Missions



- Military Construction
- Real Estate
- Overseas Contingency Operations (OCO)
- Installation Support
- Environmental of Formerly Used Defense Sites
- Interagency Support
- International Services

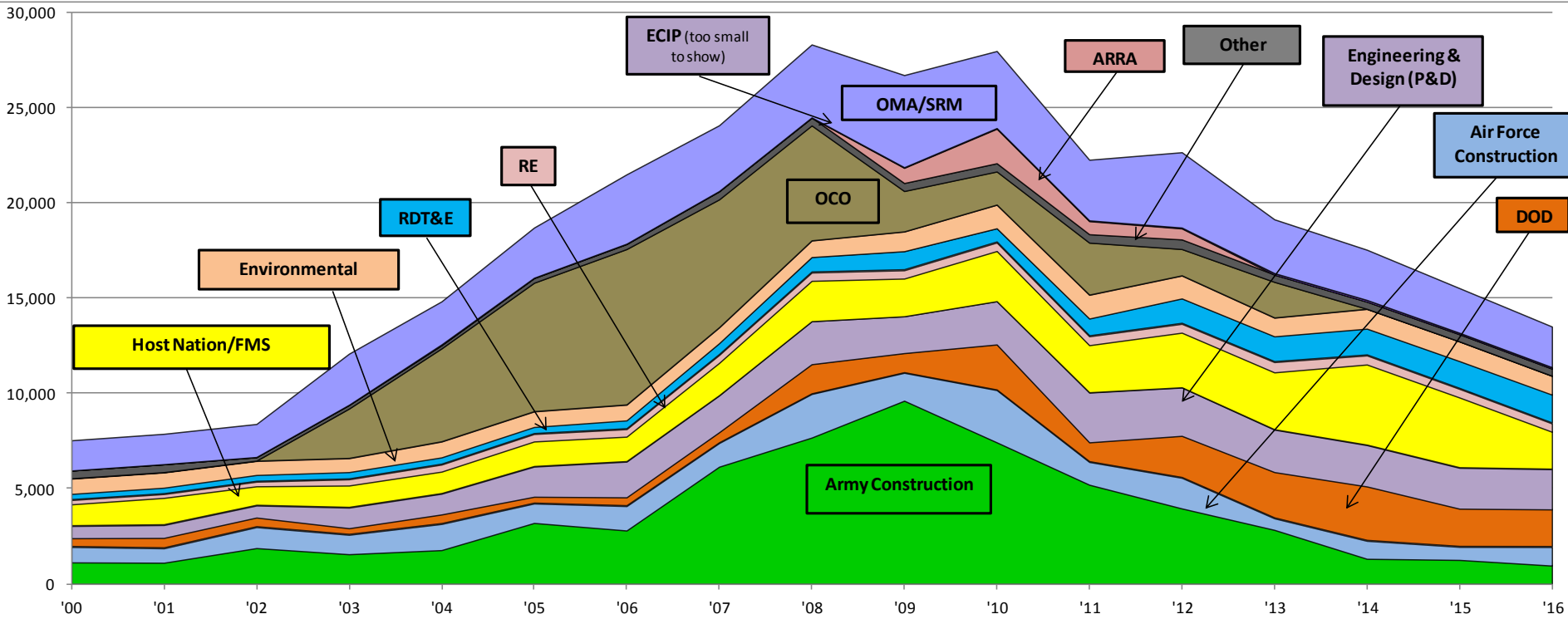


BUILDING STRONG®

Military Missions Program Trends

FY00-16

Program
(\$Millions)



FY12 consists of actual executed program

FY13 consists of current program on books plus FY12 carryover

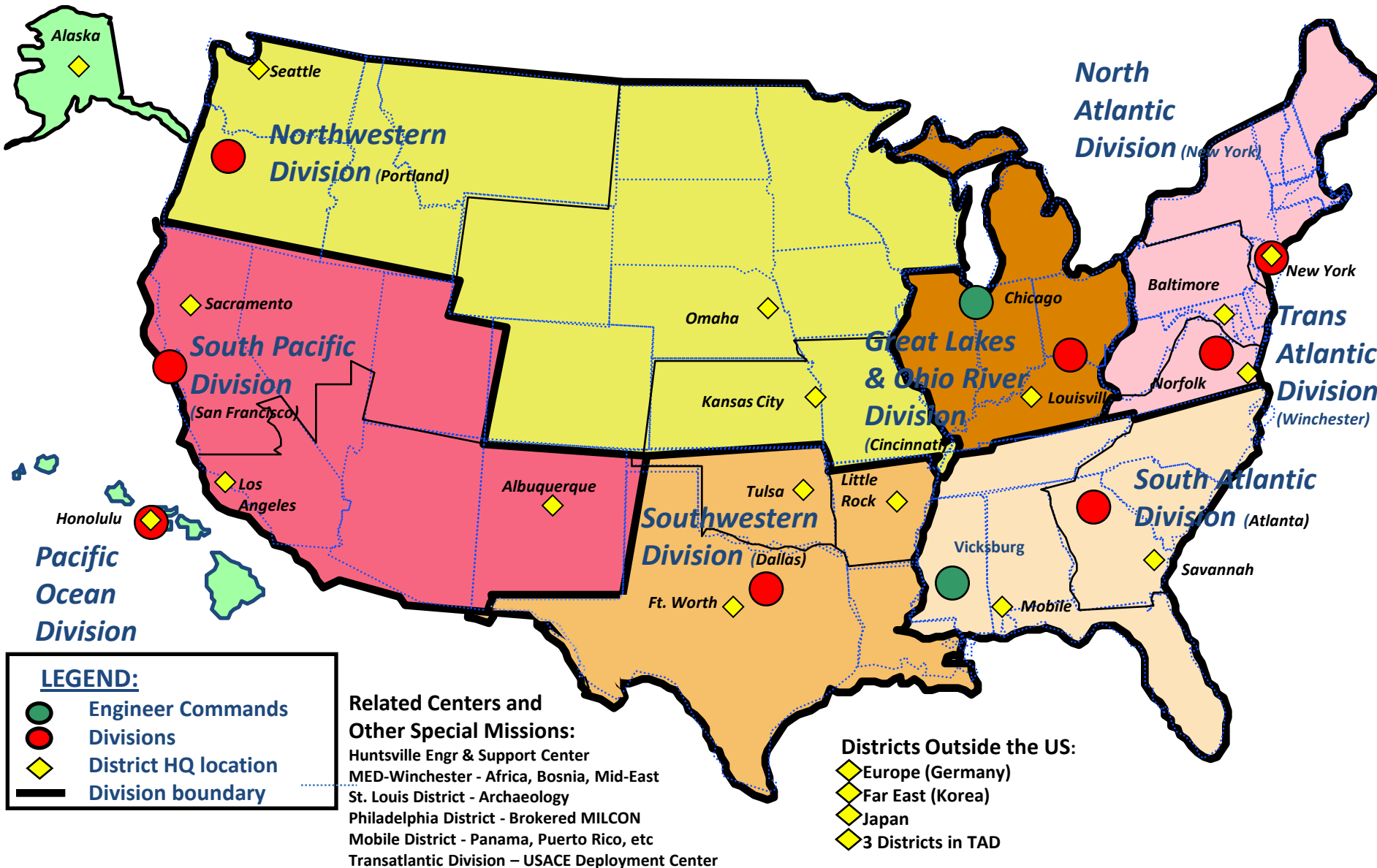
FY14 - 16 consist of PRESBUD as of 26 Oct 12

OCO (FY12 and FY13) only includes OMA OCO for the Overseas Mission and Reconstruction-Reimbursable for Afghanistan Security Forces

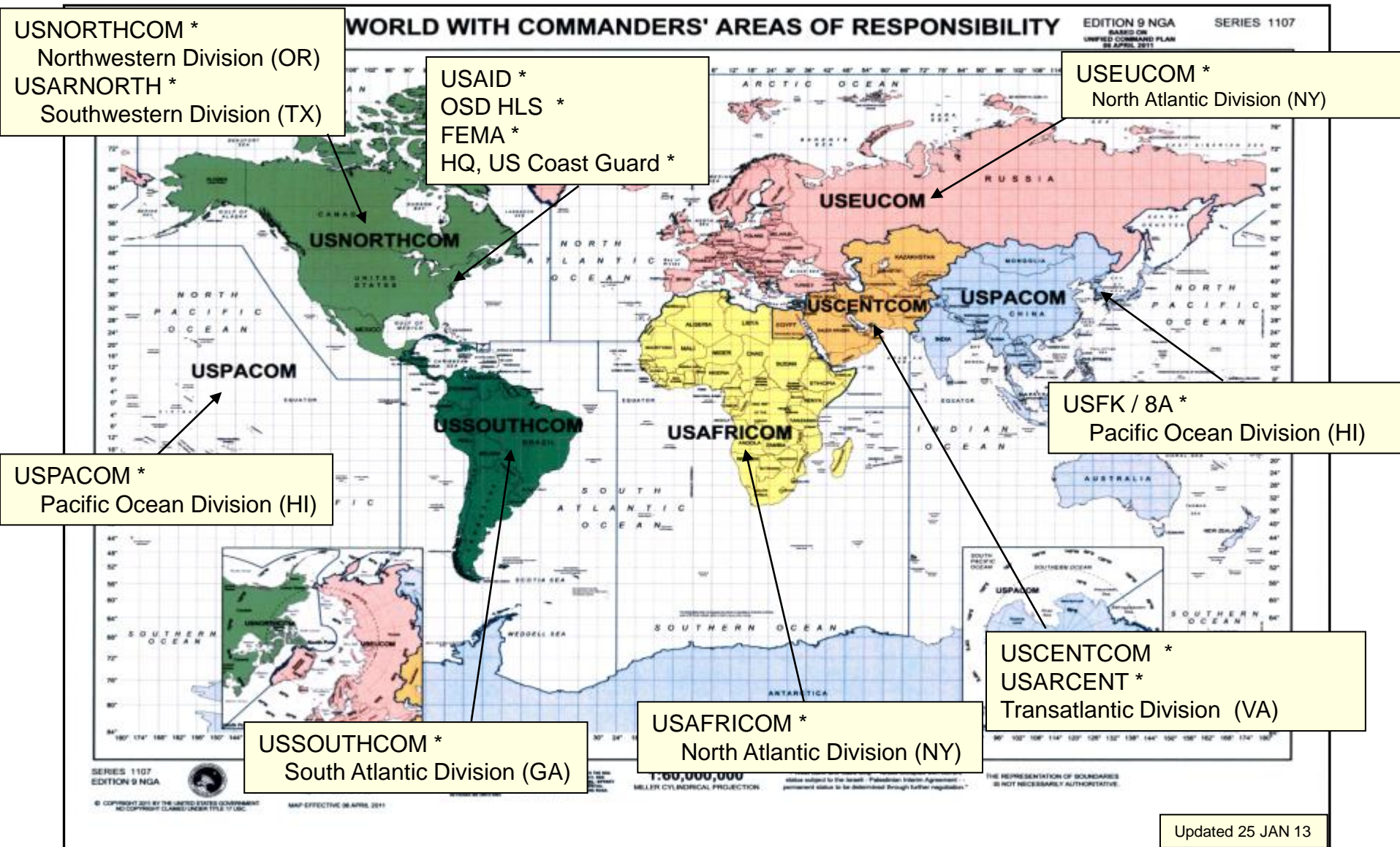
Other includes OPA, Non-Ded Reimbursable, Division Support for MILCON (DOS) - direct and Other Dir (MCA SPT/DS-SD/ETC).

Note: The FY09-12 OMA/SRM data was adjusted to correct a discovered duplication error.

USACE Military Programs Boundaries



USACE Alignment with the Geographic CCMDs, and other Federal Agencies



Updated 25 JAN 13

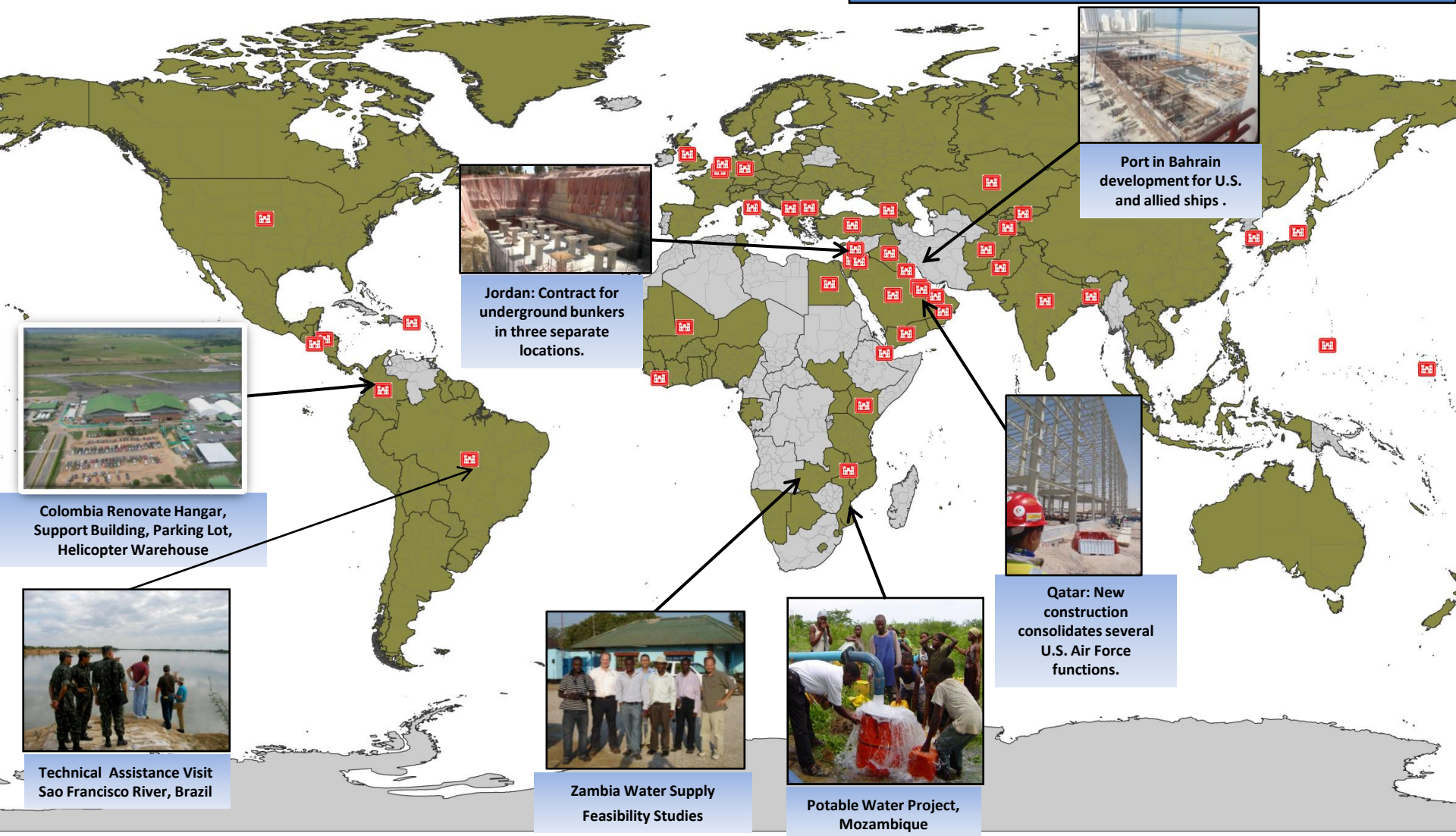
* USACE provides embedded LNO

FY 12/13 USACE Global Engagement

Engagement - 132+ Countries



Physical Presence - 43 Countries



As of 23 Jan 13

Civil Works Programs



The Civil Works Mission

Development & Management of Water Resources Infrastructure



Protection, Restoration & Management of Environmental Resources



Engineering & Technical Services



Disaster Response & Recovery



Civil Works Program

Preserving the Strength of the Nation

Deliver enduring, comprehensive, sustainable, and integrated solutions to the Nation's water resources and related challenges through collaboration with our stakeholders

(Regions, States, localities, Tribes, other Federal agencies)

(\$1.883 B) Navigation (38%)

**(\$1.425 B) Flood Risk (28%)
Management**

**(\$621 M) Ecosystem (12%)
Restoration & Infrastructure**

(\$193 M) Hydropower (4%)

**(\$243 M) Recreation & Natural (5%)
Resource Management**

**(\$193 M) Regulatory Program: (4%)
Wetlands & Waterways**

(\$6 M) Water Supply (<1%)

**(\$185 M) Expenses (4%)
(Includes ASA(CW))**

(FY 2012 Workplan)



Lock and Dam 15 (Mississippi River)



Flood Wall (Williamson, KY)



Florida Everglades



Dredge ESSAYONS (Coos Bay, OR)



Lake Seminole (Mobile District)



Bonneville II Powerhouse (Washington)

Civil Works Value to the Nation



- Nearly \$8 in flood damages prevented for every \$1 spent on Flood Risk Management

- Stewardship of 11.7 million acres of public lands

- 14,500 miles of Levees and 400 miles of shoreline protection

- 702 Dams and 926 Harbors

- 13,000 miles of Commercial Inland Waterways

- Environmental Restoration and Emergency Responses

- Recreation program generating \$16 B + 270 K jobs

- 3% of Nation's Electricity: \$1.5 B plus in sales

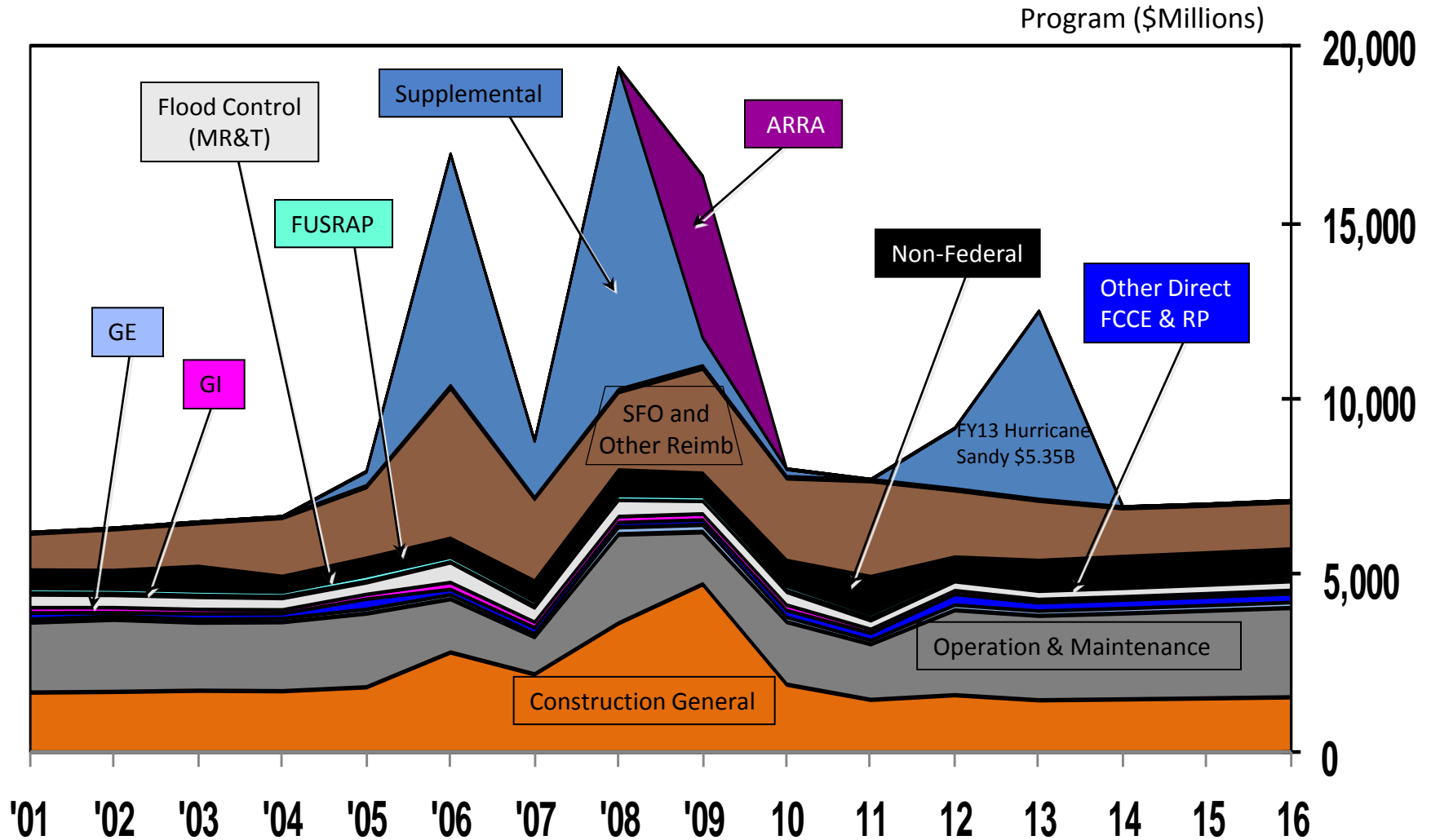
- Waterways moving goods at 50% cost of Rail and 10% cost of Trucks

- *U.S. Ports and Waterways convey >2B Tons of Commerce*
Foreign Trade creates >\$160 B in Tax Revenues

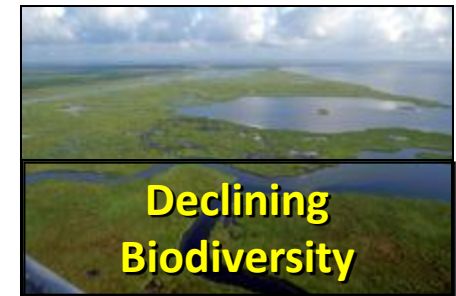
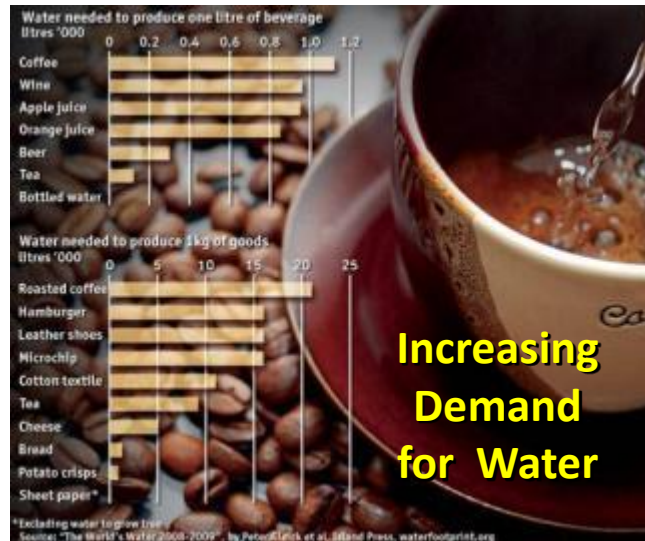
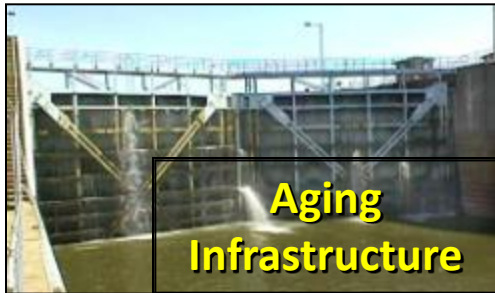
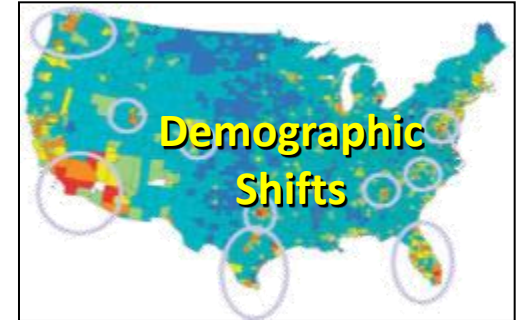
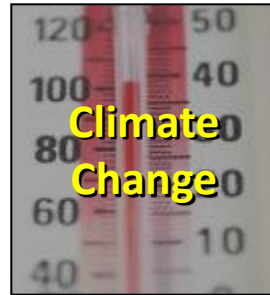


Civil Works Program Trends

FY01-16



National Water Resource Challenges



Civil Works Support to National Defense

Civil Works makes available:

- 25,000 engineers and related professionals.
- Large-scale construction capability.
- Relationship with contracting community.
- Environmental skills.
- Location in hundreds of communities.
- Interaction with millions of citizens.
- ... *all at no peacetime cost to DOD.*



Corps members deployed to Iraq and Afghanistan have built roads, airstrips, ports, electric stations, hospitals, schools, and other key infrastructure to promote stability.

Regional Water Resources Challenges

- Asian Carp (Great Lakes/Mississippi River)
- Vegetation on Levees (WA, CA, TX)
- ACT/ACF Basins (GA, AL, FL)
- Everglades Restoration
- Great Lakes - Lake Levels
- Chesapeake Bay
- Bay Delta, CA
- Columbia Fish Program (OR, WA, ID)
- Columbia River Treaty
- Missouri River
- Ohio River Basin



U.S. Army Geospatial Center





Army Geospatial Center

PRODUCTION ★ ANALYSIS ★ REACH-BACK ★ SYSTEMS ENGINEERING ★ RESEARCH AND DEVELOPMENT

OUR VISION:

Enabling geospatial information dominance.

OUR MISSION:

Providing timely, accurate, and relevant geospatial information, capabilities, and domain expertise for Army Geospatial Enterprise implementation in support of unified land operations.

WHAT WE DO:

- ✓ Provide geospatial information, domain expertise, training, and reachback capabilities to Warfighters, Special Operators, Mission Partners, Civil Works Programs, and First Responders.
- ✓ Engage in system development, acquisition, and geospatial technology integration.
- ✓ Design and implement the Army Geospatial Enterprise (AGE).
- ✓ Conduct geospatial engineering Research, Development, Technology and Evaluation.



Ground Warfighter's Geospatial Knowledge Center



Army Geospatial Enterprise

PRODUCTION



ANALYSIS



REACH-BACK



SYSTEMS ENGINEERING



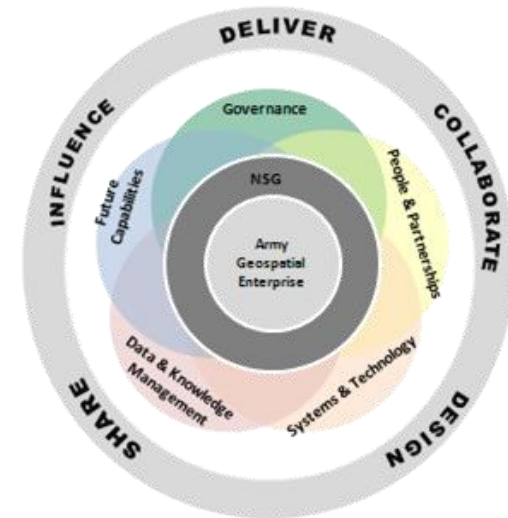
RESEARCH AND DEVELOPMENT

What is the AGE?

An integrated system of technologies, standards, data, organizations and processes that delivers a Standard and Sharable Geospatial Foundation (SSGF) at all echelons.

What does it address?

- **Stove pipe systems** that can produce and/or consume geospatial information
- **Multiple geospatial data formats, standards, schema/models, viewers and data management process** that prevent a Common Operating Picture (COP) and interoperability
- **Ineffective** continuity of operations during unit Relief in Place / Transfer of Authority (**RIP/TOA**)
- **Ensuring** the Army has the **required geospatial products and training** for exercises, pre-deployment, and system development



Connecting Army systems and users to the NSG/ASG Architecture



RESEARCH AND DEVELOPMENT



Engineer Research & Development Center



Engineer Research & Development Center

- 2500 Employees (1800 Full Time Federal)
- 991 Scientists & Engineers
- \$1.2 Billion in Unique Research Facilities & Equipment
- \$1.5 Billion Annual Program
- 77 Active Patents



Cold Regions Research and Engineering Laboratory

Hanover, NH



Construction Engineering Research Laboratory

Champaign, IL



ERDC

Geospatial Research & Engineering Division
(co-located w/ the AGC)

Alexandria, VA



ERDC Headquarters

Coastal and Hydraulics Laboratory
Environmental Laboratory
Geotechnical and Structures Laboratory
Information Technology Laboratory

Vicksburg, MS



Engineer Research & Development Center

Support to the Army and the Nation, Leveraging Technical Engineer Capabilities with R&D

Enable Theater Access



Rapid Airfield Construction

Chemical and Biological



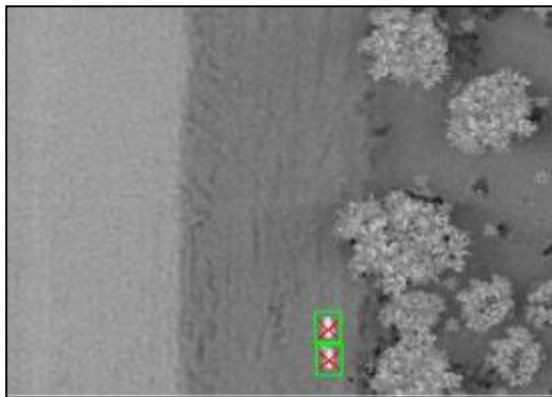
Immune Buildings Counter Rocket, Artillery & Mortar

Force Protection



Structural Retrofit

Countermine Phenomenology



IED Simulation and Detection



Countermine Phenomenology Test bed

U.S. Corps of Engineers - Facts

- USACE is structured to deliver across the globe.
- USACE has world-class civilians and Soldiers.
- USACE rapidly responds to disasters and challenges of all kinds.
- USACE delivers professional results in construction, natural resource management, energy, sustainability, capacity building.



We are U.S. Army “ambassadors” on a daily basis to political leaders, America’s small businesses, and to citizens wherever we serve them.

Your Questions

